Software Engineering and Testing

Assessment 1: Project Proposal

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Declaration

I herby certify that this material, which I now submit for assessment on the programme of study leading to the award of Ordinary Degree in Computing in the Institute of Technology Blanchardstown, is entirely my own work except where otherwise stated.

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GymGo

Introduction

GymGo, the new web interface created for your gym. This web interface is created to provide a simple and unique experience for your gyms user, it is made with user-friendliness in mind. The website, designed to be user-friendly and straightforward, transforms gym management into an effortless experience. Navigating through the GymGo website is really simple, it's easy to secure memberships and essential gym items hassle free from the GymGo store. Booking classes is also really simple using the GymGo platform, making it simple for gym owners to stay organized and on top of their schedules. Gym owners can focus on their goals without being slowed down by unnecessary problems. The website takes care of the necessities involved in your gym. GymGo introduces a user-friendly system that covers everything from managing accounts to getting your fitness essentials. Its a ready to use solution which offers convenience and innovation in one package. This platform isnt just a basic tool, its a helpful resource in the management of your gym which eases the path for owners on their journey to success.

Motivation

GymGo is a must have for gyms it simplies tasks with its user-friendly design and it saves time for both owners and members. This all in one platform simplifies membership management, class bookings, and essential purchases.

GymGo serves as a gym helper it ensures simplicity, time savings, and it allows owners to concentrate on the gyms excellence. Additionally, GymGo has progress tracking and loyalty bonuses it also enhances the member experience and provides valuable insights for owners to refine their offerings.

By optimizing daily operations this platform enables owners to lead their gyms to success by enhancing the members satisfaction.

Goals

Ensuring a secure login process for users accessing the GymGo app via web search. The GymGo app strives for an attractive and catchy interface, enhancing user engagement. It ensures simple and fast navigation, guiding users seamlessly through their experience.

Client

This website will be made for a gym to allow its member to book classes and make purchases online. The client will likely have little to no knowledge of how the website will be made but will likely have a large input regarding how the website should look to align with their branding.

The Project

The project definition:

- What is the project?

Gym app named "GymGo".

- What will the end product do?

The website will provide both the owner and customers with various functionalities. Owners will access a database for business insights, while customers can perform tasks like logging in, booking classes, and purchasing products.

- What are the main components of the software system?

The main components of the GymGo software system includes a wide range of features. These are a members/sign-up functionality, designed to manage member details. Additionally, the system will allow users to book classes, with databases for classes and booking pages, allowing users to select preferred dates, days, and times. Finally, an online store is incorporated, featuring databases for products and payments, as well as pages for browsing and purchasing gym-related products and subscriptions.

- How will it be used?

The GymGo app will serve different purposes for both the app owner and customers. For the owner, it offers tools to monitor customer numbers, track purchases, and analyse product and class popularity. Customers can use the app to register as members, access class schedules for booking, and purchase items like protein shakes and merchandise from the online store, improving their overall gym experience.

Project Value and Benefits

The website will be used by the gyms members. The main value of using this app is that it will allow the members to do any purchasing or booking for the gym conveniently from one place at any time. Members will be able to make an account on the website to save their personal information which will remove the need for

them to re-enter their details every time they wish to interact with the gym. Users will be able to book classes and buy products and memberships though the website. The website will also save the bookings and purchases related to their account for members to see or adjust any time.

Technical Requirements

The will be developing the project using an agile methodology. This method of breaking the project into more manageable sections in development will result in a better work flow and be more accommodating to future development and possible challenges that the team may face, and also ensure that the work is divided equally between all members.

In the process of developing the website, the team has decided to use a combination of a standard markup language, a scripting language and a persistence storage system to meet their requirements. The team has also decided to use open source platforms for these components to negate costs for creating the project.

The team has decided to use HTML as their markup language as it is the standard markup language uses in websites and this will meet the basic structure and navigational requirements of the page. CSS will also be used to create the desired look for the page.

A more advanced scripting language will be needed to meet the functional requirements of the website, such as dealing will data form the website, using data dynamically and giving the site a more interactive experience. PHP will be used as the scripting language as it especially suited for use in websites and should meet all of the required functionality.

Finally, the data needed to run the website, such as classes, user info and booking details will need to be stored in a persistence storage system. For the teams purposes it doesn't need to accommodate for particularly large amounts of data and should be able to interact with the webpage. The team has chosen to use MySQL for this as it will meet the mentioned requirements and an opensource database tool.